....... 1
.......ggc ctgagaccc tgtcgacaa. .t g.cattg tcaggcacag agcggtagac
60

...g.ttctc taagtgggca gcggacagc. g. acgcacat ttcacctgtc ccgcagacaa
120

...g.accatc tgcttgggag aacc.tct.. .tctctgag aaagaaagat gtcgaatg.g
180

.attccacag acgagaattt ccgctatctc at.tcgtgct tcagggccag ggtgaaaatg
...

...aatccagg tggagcctgt gctggacta. .tgaccttc tgcctgcaga ggtgaaggag
300

..agattcaga ggacagtcgc cacctccggg aacatgcagg cagttgaact gctgctgagc
360

...tttggaga agggagtctg gcaccttg.t tggactcggg aattcgtgga ggccctccgg
...

...gtca gctgcttaga tgaaagt... ...a...ta... gcaacatggg cagtga...
1120

...a...atgg gaagtgattc acatgaagag ...atgtgcag caagagcatc cccggagcca
1080

...cccagc tcaggcctta ccaaatgg... ...gtc...ac ...ccttgga aggaacca...
1140

...t...atct gcctccctac agggagtg.. a...accagag tggctgttta cattgccaag
1200

...t...acttag acaagaagaa aaaagcat.. .gcctggaa aagttatagt tcttgtcaat
1260

aaggtactgc tagttgaaca gctcttcc.. aaggagttcc aaccattttt gaagaaatgg
1320

t...gtgtta ttggattaag tggtgatacc ..actgaaaa tatcatttcc agaagttgtc
1380

...gtcctgtg atattattat cagtacagct caaatccttg aaaactccct cttaaacttg
1440

gaaatggag aagatgctgg tgttcaattg tcagactttt ccctcattat cattgatgaa
1500

tgtcatcaca ccaacaaaga agcagtgtat aataacatca tgaggcatta tttgatgcag
1560

aagttgaaaa acaatagact caagaaagaa aacaaaccag tgattcccct tcctcagata
1620

2

. . . .  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . tgt . . . . . . . .

. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . gtttgccat tgt . . . . . . 

. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . aaggat . . . . . . . . 

. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . aatg ggt . . . . . . 

. . . . . . . . . . . . . . . . . . . . . . . . . . . gttgtgc aaaaa . . . . 

. . . . . . . . . . . . . . . . . . . . . . aatgataga tgag . . . . . . 

. . gttgaaa . . . . . . . . . . . . . . . . . . . . . ttgcagtcat agaaga . . . . .

. . . . . gagg gtggtgatga . . . . . . . . . . . . . . . aagatgagga tga . . . . . .

. . . . tttga aaatggatga . . . . . . . . . . . . . tttattttt tgaaaa . . . .
. 220

aaaatgttga aaaggctggc tgaaaaccca gaatatgaaa atgaaaagct gaccaaatta
. 280

. . . aatacca taatgagcca atatactagg actgatgaat cagcacgagg aataat . . . .
. 340

. . aaaaacac gacagagtgc atatgcgctt tccgagtgga ttactgaaaa tgaaaaatt .
. 400

. . tgaagtag gagtcaaagc ccaccatctg attggagctg gacacagcag tgagttcaaa
. 460

. . aatgacac agaatgaaca aaaagaagtc attagtaaat ttcgcactgg aaaaatcaat
. 520

. . tgcttatcg ctaccacagt ggcagaagaa ggtctggata ttaaagaatg taacattgtt
. 580

. . . tgttatg gtctcgtcac caatgaaata gccatggtcc aggcccgtgg tcgagccaga
. 640

. . tgatgaga gcacctacgt cctggttgct cacagtggtt caggagttat cgaacatgag
. 700

. . agttaatg atttccgaga gaagatgatg tataaagcta tacattgtgt tcaaaatatg
. 760

. . accagagg agtatgctca taagattttg gaattacaga tgcaaagtat aatggaaaag
. 820

. . aatgaaaa ccaagagaaa tattgccaag cattacaaga ataacccatc actaataact
. 880

3

<210> 2

<211> 3131

<212> PRT

<213> Human


<400> 2

```
Ala Thr Gly Thr Cys Gly Ala Ala Thr Gly Gly Gly Thr Ala Thr Thr
1               5                   10                  15

Cys Cys Ala Cys Ala Gly Ala Cys Gly Ala Gly Ala Ala Thr Thr Thr
            20                  25                  30

Tys Cys Gly Cys Thr Ala Thr Cys Thr Cys Ala Thr Cys Thr Cys Gly
        35                  40                  45

Thr Gly Cys Thr Thr Cys Ala Gly Gly Gly Cys Cys Ala Gly Gly Gly
    50                  55                  60

Thr Gly Ala Ala Ala Ala Thr Gly Thr Ala Cys Ala Thr Cys Cys Ala
65                  70                  75                  80

Gly Gly Thr Gly Gly Ala Gly Cys Cys Thr Gly Thr Gly Cys Thr Gly
                85                  90                  95

Gly Ala Cys Thr Ala Cys Cys Thr Gly Ala Cys Cys Thr Thr Thr Cys
            100                 105                 110
```

4

... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ...

... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ...

... ... Ala Gly Thr Cys Gly Cys ... Ala Cys Cys Thr Cys Thr Gly
          180                    185

... Gly Ala Ala Cys Ala Thr Gly ... Ala Gly Gly Cys Ala Gly Thr
          185                    ...                    ...

Thr Gly Ala Ala Cys Thr Gly Cys Thr Gly Cys Thr Gly Ala Gly Cys
          180                    ...                    190

Ala Tyr Cys Thr Thr Gly Gly Ala ... Gly Ala Ala Gly Gly Gly Ala Gly
          195                    200                    205

Thr Tyr Thr Gly Gly Cys Ala Cys Tyr Thr Thr Gly Gly Thr Thr Gly
          210                    215                    220

Gly Ala Cys Thr Cys Gly Gly Gly Ala Ala Thr Thr Cys Gly Thr Gly
225                    230                    235                    240

Gly Ala Gly Gly Cys Cys Cys Thr Cys Cys Gly Gly Ala Gly Ala Ala
                       245                    250                    255

Cys Cys Gly Gly Cys Ala Gly Cys Cys Cys Thr Cys Thr Gly Gly Cys
          260                    265                    270

Cys Gly Cys Cys Cys Gly Cys Thr Ala Cys Ala Thr Gly Ala Ala Cys
          275                    280                    285

Cys Cys Thr Gly Ala Gly Cys Thr Cys Ala Cys Gly Gly Ala Cys Thr
          290                    295                    300

Thr Gly Cys Cys Cys Thr Cys Thr Cys Cys Ala Thr Cys Gly Thr Thr
          305                    310                    315                    320

Thr Gly Ala Gly Ala Ala Cys Gly Cys Thr Cys Ala Thr Gly Ala Thr
                       325                    330                    335

Gly Ala Ala Thr Ala Thr Cys Thr Cys Cys Ala Ala Cys Thr Gly Cys
                       340                    345                    350

Thr Gly Ala Ala Cys Cys Thr Cys Cys Thr Thr Cys Ala Gly Cys Cys
          355                    360                    365

Cys Ala Cys Thr Cys Thr Gly Gly Thr Gly Gly Ala Cys Ala Ala Gly
          370                    375                    380

Cys Thr Thr Cys Thr Ala Gly Thr Thr Ala Gly Ala Gly Ala Cys Gly
          385                    390                    395                    400

Thr Cys Thr Thr Gly Gly Ala Thr Ala Ala Gly Thr Gly Cys Ala Thr
                       405                    410                    415

Gly Gly Ala Gly Gly Ala Gly Gly Ala Ala Cys Thr Gly Thr Thr Gly
          420                    425                    430

Ala Cys Ala Ala Thr Thr Gly Ala Ala Gly Ala Cys Ala Gly Ala Ala
          435                    440                    445

5

... Gly Gly Ala Thr ... ... Tyr Thr Gly ...
460                                         4??

Ala Gly Ala Ala Ala Ala Tyr Ala Ala Thr Gly Gly Ala Ala Ala Thr
4??            470                  4??                        4??

Gly Ala Ala Thr Cys Ala Gly Gly Thr Gly Thr Ala Ala Gly Ala Gly
          4?5                  4??                        495

Ala Gly Cys Thr Ala Cys Thr Ala Ala Ala Ala Ala Gly Gly Ala Thr
          500                  5??                  510

Thr Gly Thr Gly Cys Ala Gly Ala Ala Ala Gly Ala Ala Ala Ala Cys
          515                  52?                  525

Thr Gly Gly Thr Thr Cys Thr Cys Thr Gly Cys Ala Thr Thr Thr Cys
          530                  535                  540

Thr Gly Ala Ala Thr Gly Thr Thr Cys Thr Thr Cys Gly Thr Cys Ala
5??            550                  555                        560

Ala Ala Cys Ala Gly Gly Ala Ala Ala Cys Ala Ala Thr Gly Ala Ala
          565                  570                  575

Tyr Thr Thr Gly Thr Cys Cys Ala Ala Gly Ala Gly Thr Thr Ala Ala
          580                  585                  590

Cys Ala Gly Gly Cys Thr Cys Thr Gly Ala Thr Thr Gly Cys Thr Cys
          595                  600                  605        .

Ala Gly Ala Ala Ala Gly Cys Ala Ala Thr Gly Cys Ala Gly Ala Gly
          610                  615                  620

Ala Thr Thr Gly Ala Gly Ala Ala Thr Thr Thr Ala Thr Cys Ala Cys
625            630                  635                        640

Ala Ala Gly Thr Thr Gly Ala Thr Gly Gly Thr Cys Cys Thr Cys Ala
          645                  650                  655

Ala Gly Thr Gly Gly Ala Ala Gly Ala Gly Cys Ala Ala Cys Thr Thr
          660                  665                  670

Cys Thr Thr Thr Cys Ala Ala Cys Cys Ala Cys Ala Gly Thr Thr Cys
          675                  680                  685

Ala Gly Cys Cys Ala Ala Ala Thr Cys Thr Gly Gly Ala Gly Ala Ala
690                  695                  700

Gly Gly Ala Gly Gly Thr Cys Thr Gly Gly Gly Gly Cys Ala Thr Gly
705                  710                  715              720

Gly Ala Gly Ala Ala Thr Ala Ala Cys Thr Cys Ala Thr Cys Ala Gly
          725                  730                  735  .

Ala Ala Thr Cys Ala Thr Cys Thr Thr Thr Thr Gly Cys Ala Gly Ala
          740                  745                  750

Thr Thr Cys Thr Thr Cys Thr Gly Thr Ala Gly Thr Thr Thr Cys Ala
          755                  760                  765

Gly Ala Ala Thr Cys Ala Gly Ala Tyr Ala Cys Ala Ala Gly Thr Thr

6

Thr Gly Gly Tyr Ala Gly Ala Ala Gly Gly Ala Ala Gly Thr Gly Thr

Tyr Ala Gly Cys Thr Gly Cys Thr Thr Ala Gly Ala Thr Gly Ala Ala
     805                  810                  815

Ala Gly Thr Cys Thr Thr Gly Gly Ala Tyr Ala Thr Ala Ala Cys Ala
     820                  825                  830

Gly Cys Ala Ala Cys Ala Thr Gly Gly Gly Cys Ala Gly Thr Gly Ala
     835                  840                  845

Thr Thr Cys Ala Gly Gly Cys Ala Cys Tyr Ala Thr Gly Gly Gly Ala
     850                  855                  860

Ala Gly Thr Gly Ala Thr Thr Cys Ala Gly Ala Thr Gly Ala Ala Gly
     865               870               875               880

Ala Gly Ala Ala Thr Gly Thr Gly Gly Cys Ala Gly Cys Ala Ala Gly
              885              890               895

Ala Gly Cys Ala Thr Cys Cys Cys Cys Gly Gly Ala Gly Cys Cys Ala
      900                905                  910

Gly Ala Ala Cys Thr Cys Cys Ala Gly Cys Thr Cys Ala Gly Gly Cys
     915                  920               925

Cys Thr Thr Ala Cys Cys Ala Ala Ala Thr Gly Gly Ala Ala Gly Thr
     930                  935               940

Thr Gly Cys Cys Cys Ala Gly Cys Cys Ala Gly Cys Cys Thr Thr Gly
     945               950               955            960

Gly Ala Ala Gly Gly Gly Ala Ala Gly Ala Ala Thr Ala Thr Cys Ala
              965              970               975

Thr Cys Ala Thr Cys Thr Gly Cys Cys Thr Cys Cys Cys Thr Ala Cys
     980                  985               990

Ala Gly Gly Gly Ala Gly Thr Gly Gly Ala Ala Ala Ala Ala Cys Cys
     995                  1000               1005

Ala Gly Ala Gly Thr Gly Gly Cys Thr Gly Thr Thr Thr Ala Cys
     1010                  1015               1020

Ala Thr Thr Gly Cys Cys Ala Ala Gly Gly Ala Thr Cys Ala Cys
     1025                  1030               1035

Thr Thr Ala Gly Ala Cys Ala Ala Gly Ala Ala Gly Ala Ala Ala
     1040                  1045               1050

Ala Ala Ala Gly Cys Ala Thr Cys Thr Gly Ala Gly Cys Cys Thr
     1055                  1060               1065

Gly Gly Ala Ala Ala Ala Gly Thr Thr Ala Thr Ala Gly Thr Thr
     1070                  1075               1080

Thr Thr Thr Gly Thr Cys Ala Ala Thr Ala Ala Gly Gly Thr Ala
     1085                  1090               1095

7

```
Tyr Thr  Gly Tyr Thr Ala Gly  Thr Thr Gly Ala Ala  Cys Ala Gly
         1100                  1105                  1110

Tyr Thr  Cys Thr Thr Cys Cys  Thr Tyr Ala Ala Gly  Gly Ala Gly
         1115                  1120                  1125

Thr Thr  Cys Cys Ala Ala Cys  Cys Ala Thr Thr Thr  Thr Thr Gly
         1130                  1135                  1140

Ala Ala  Gly Ala Ala Ala Thr  Thr Gly Thr Ala Thr  Cys Gly Thr
         1145                  1150                  1155

Gly Thr  Thr Ala Thr Thr Gly  Gly Ala Thr Thr Ala  Ala Gly Thr
         1160                  1165                  1170

Gly Gly  Thr Gly Ala Thr Ala  Tyr Cys Cys Ala Ala  Cys Thr Gly
         1175                  1180                  1185

Ala Ala  Ala Ala Thr Ala Thr  Cys Ala Thr Thr Thr  Cys Cys Ala
         1190                  1195                  1200

Gly Ala  Ala Gly Thr Thr Gly  Thr Tyr Ala Ala Gly  Thr Cys Cys
         1205                  1210                  1215

Thr Gly  Thr Gly Ala Thr Ala  Thr Thr Ala Thr Cys  Ala Gly Thr
         1220                  1225                  1230

Ala Cys  Ala Gly Cys Thr Cys  Ala Ala Ala Thr Cys  Cys Thr Thr
         1235                  1240                  1245

Gly Ala  Ala Ala Ala Cys Thr  Cys Cys Cys Thr Cys  Thr Thr Ala
         1250                  1255                  1260

Ala Ala  Cys Thr Thr Gly Gly  Ala Ala Ala Ala Thr  Gly Gly Ala
         1265                  1270                  1275

Gly Ala  Ala Gly Ala Thr Gly  Cys Thr Gly Gly Thr  Gly Thr Thr
         1280                  1285                  1290

Tyr Ala  Ala Thr Thr Gly Thr  Cys Ala Gly Ala Cys  Thr Thr Thr
         1295                  1300                  1305

Thr Cys  Cys Cys Thr Cys Ala  Thr Thr Ala Thr Cys  Ala Thr Thr
         1310                  1315                  1320

Gly Ala  Thr Gly Ala Ala Thr  Gly Thr Cys Ala Thr  Cys Ala Cys
         1325                  1330                  1335

Ala Cys  Cys Ala Ala Cys Ala  Ala Ala Gly Ala Ala  Gly Cys Ala
         1340                  1345                  1350

Gly Thr  Gly Thr Ala Thr Ala  Ala Thr Ala Ala Cys  Ala Thr Cys
         1355                  1360                  1365

Ala Thr  Gly Ala Gly Gly Cys  Ala Thr Thr Ala Thr  Thr Thr Gly
         1370                  1375                  1380

Ala Thr  Gly Cys Ala Gly Ala  Ala Gly Thr Thr Gly  Ala Ala Ala
         1385                  1390                  1395

Ala Ala  Tyr Ala Ala Thr Ala  Gly Ala Tyr Thr Tyr  Ala Ala Gly
         1400                  1405                  1410
```

8

Ala Gly Ala Ala Ala Ala Tyr Ala Ala Ala Cys Cys Ala
1415                1420                1425

Gly Thr Gly Ala Thr Thr Cys Tyr Tyr Cys Thr Thr Cys Cys Thr
1430                1435                1440

Tyr Ala Gly Ala Thr Ala Cys Thr Gly Gly Gly Ala Cys Thr Ala
1445                1450                1455

Ala Tyr Ala Gly Cys Thr Thr Tyr Ala Cys Cys Thr Gly Gly Thr
1460                1465                1470

Gly Thr Thr Gly Gly Ala Gly Tyr Gly Gly Cys Cys Ala Cys Gly
1475                1480                1485

Ala Ala Gly Cys Ala Ala Gly Thr Cys Ala Ala Ala Gly Cys Thr
1490                1495                1500

Gly Ala Ala Gly Ala Ala Cys Ala Cys Ala Thr Thr Thr Thr Ala
1505                1510                1515

Ala Ala Ala Cys Thr Ala Thr Gly Thr Gly Cys Cys Ala Ala Thr
1520                1525                1530

Tyr Thr Thr Gly Ala Thr Gly Tyr Ala Thr Thr Thr Ala Cys Thr
1535                1540                1545

Ala Thr Thr Ala Ala Ala Ala Cys Thr Gly Thr Thr Ala Ala Ala
1550                1555                1560

Gly Ala Ala Ala Ala Cys Cys Thr Thr Gly Ala Thr Cys Ala Ala
1565                1570                1575

Tyr Thr Gly Ala Ala Ala Ala Ala Cys Cys Ala Ala Ala Thr Ala
1580                1585                1590

Tyr Ala Gly Gly Ala Gly Cys Tyr Ala Thr Gly Cys Ala Ala Gly
1595                1600                1605

Ala Ala Gly Thr Thr Thr Gly Cys Cys Ala Thr Thr Gly Cys Ala
1610                1615                1620

Gly Ala Thr Gly Cys Ala Ala Cys Tyr Ala Gly Ala Gly Ala Ala
1625                1630                1635

Gly Ala Thr Cys Cys Ala Thr Thr Thr Ala Ala Ala Gly Ala Gly
1640                1645                1650

Ala Ala Ala Cys Thr Thr Cys Thr Ala Gly Ala Ala Ala Thr Ala
1655                1660                1665

Ala Thr Gly Ala Cys Ala Ala Gly Gly Ala Thr Thr Cys Ala Ala
1670                1675                1680

Ala Cys Thr Thr Ala Thr Thr Gly Thr Cys Ala Ala Ala Thr Gly
1685                1690                1695

Ala Gly Thr Cys Cys Ala Ala Thr Gly Thr Cys Ala Gly Ala Thr
1700                1705                1710

Thr Thr Thr Gly Gly Ala Ala Tyr Thr Tyr Ala Ala Cys Cys Tyr

9

Thr Ala  Thr Gly Ala Ala Cys  Ala Ala Thr Gly Gly  Gly Cys Cys
         1730          1735          1740

Ala Thr  Thr Cys Ala Ala Ala  Thr Gly Gly Ala Ala  Ala Ala Ala
         1745          1750          1755

Ala Ala  Ala Gly Cys Thr Gly  Thr Ala Ala Ala Ala  Ala Ala Ala
         1760          1765          1770

Thr Gly  Ala Ala Ala Thr Cys  Gly Thr Ala Ala Ala  Gly Ala Ala
         1775          1780          1785

Thr Gly  Thr Gly Thr Thr Thr  Thr Thr Gly Cys Ala  Gly Ala Ala
         1790          1795          1800

Thr Ala  Thr Thr Thr Gly Ala  Gly Gly Ala Ala Gly  Thr Ala Cys
         1805          1810          1815

Ala Ala  Thr Gly Ala Gly Gly  Thr Thr Cys Thr Ala  Cys Ala Ala
         1820          1825          1830

Ala Thr  Thr Ala Ala Thr Gly  Ala Cys Ala Cys Ala  Ala Thr Thr
         1835          1840          1845

Thr Gly  Ala Ala Thr Gly Ala  Thr Ala Gly Ala Thr  Cys Cys Gly
         1850          1855          1860

Thr Gly  Thr Ala Thr Ala Cys  Thr Cys Ala Thr Cys  Thr Thr Gly
         1865          1870          1875

Ala Ala  Ala Cys Thr Thr Thr  Cys Thr Ala Thr Ala  Ala Thr Gly
         1880          1885          1890

Ala Ala  Gly Ala Gly Ala Ala  Ala Gly Ala Thr Ala  Ala Gly Ala
         1895          1900          1905

Ala Gly  Thr Thr Thr Gly Cys  Ala Gly Thr Cys Ala  Thr Ala Gly
         1910          1915          1920

Ala Ala  Gly Ala Thr Gly Ala  Thr Ala Gly Thr Gly  Ala Thr Gly
         1925          1930          1935

Ala Gly  Gly Gly Thr Gly Gly  Thr Gly Ala Thr Gly  Ala Thr Gly
         1940          1945          1950

Ala Gly  Thr Ala Thr Thr Gly  Thr Gly Ala Thr Gly  Gly Thr Gly
         1955          1960          1965

Ala Thr  Gly Ala Ala Gly Ala  Thr Gly Ala Gly Gly  Ala Thr Gly
         1970          1975          1980

Ala Thr  Thr Thr Ala Ala Ala  Gly Ala Ala Ala Cys  Cys Thr Thr
         1985          1990          1995

Thr Gly  Ala Ala Ala Cys Thr  Gly Gly Ala Thr Gly  Ala Ala Ala
         2000          2005          2010

Thr Ala  Gly Ala Thr Ala Gly  Ala Thr Thr Thr Cys  Thr Cys Ala
         2015          2020          2025

10

Thr Gly Ala Cys Thr Thr Thr Ala Thr Ala Thr Thr Thr Thr Thr Gly
2035 2040

Ala Ala Ala Ala Cys Ala Ala Thr Ala Ala Ala Ala Thr Gly Thr
2045 2050 2055

Thr Gly Ala Ala Ala Ala Gly Gly Thr Gly Gly Gly Cys Thr Gly
2060 2065 2070

Ala Ala Ala Ala Cys Thr Cys Ala Gly Ala Ala Thr Ala Thr Gly
2075 2080 2085

Ala Ala Ala Ala Thr Gly Ala Ala Ala Ala Ala Gly Cys Thr Gly Ala
2090 2095 2100

Thr Cys Ala Ala Ala Thr Thr Ala Ala Gly Ala Ala Ala Thr Ala
2105 2110 2115

Thr Cys Ala Thr Ala Ala Thr Gly Gly Ala Gly Cys Ala Ala Thr
2120 2125 2130

Thr Thr Ala Cys Thr Ala Gly Gly Ala Cys Thr Gly Ala Gly Gly
2135 2140 2145

Thr Ala Thr Cys Ala Ala Cys Ala Thr Gly Ala Gly Gly Ala Ala
2170 2155 2160

Thr Ala Ala Thr Thr Thr Thr Thr Ala Cys Ala Ala Ala Ala Ala
2165 2170 2175

Thr Ala Cys Gly Ala Cys Ala Gly Ala Gly Thr Gly Cys Ala Thr
2180 2185 2190

Thr Thr Gly Cys Gly Cys Thr Thr Thr Thr Cys Cys Ala Gly Thr
2195 2200 2205

Gly Gly Ala Thr Thr Ala Cys Thr Gly Ala Ala Ala Ala Thr Gly
2210 2215 2220

Thr Ala Ala Ala Ala Thr Thr Thr Gly Cys Thr Gly Ala Ala Gly
2225 2230 2235

Thr Ala Gly Gly Ala Gly Thr Cys Ala Ala Ala Gly Cys Cys Cys
2240 2245 2250

Thr Cys Cys Ala Thr Thr Thr Gly Ala Thr Thr Gly Gly Ala Gly
2255 2260 2265

Thr Thr Gly Gly Ala Cys Ala Thr Ala Gly Cys Ala Gly Thr Gly
2270 2275 2280

Ala Gly Thr Thr Cys Ala Ala Ala Cys Cys Cys Ala Thr Gly Ala
2285 2290 2295

Cys Ala Cys Ala Gly Ala Ala Thr Gly Ala Ala Cys Ala Ala Ala
2300 2305 2310

Ala Ala Gly Ala Ala Gly Thr Cys Ala Thr Thr Ala Gly Thr Ala
2315 2320 2325

Ala Ala Thr Thr Thr Cys Gly Cys Ala Cys Thr Gly Gly Ala Ala
2330 2335 2340

11

... ... Ala Thr Tyr Ala Ala Thr ... Thr Gly Cys Thr Thr Ala  
    2355

Thr Tyr Gly Tyr Thr Ala Tyr Tyr Ala Tyr Ala Gly Thr Gly Gly  
    2360                 2365                 2370

Tyr Ala Gly Ala Ala Gly Ala ... Gly Gly Thr Cys Thr Gly Gly  
    2375                 2380                 2385

Ala Thr Ala Thr Thr Ala Ala ... Gly Ala Ala Thr Gly Thr Ala  
    2390                 2395                 2400

Ala Tyr Ala Thr Thr Gly Thr Thr Ala Thr Cys Cys Gly Thr Thr  
    2405                 2410                 2415

Ala Thr Gly Gly Thr Cys Thr Tyr Gly Thr Cys Ala Cys Cys Ala  
    2420                 2425                 2430

Ala Thr Gly Ala Ala Ala Thr Ala Gly Tyr Cys Ala Thr Gly Gly  
    2435                 2440                 2445

Thr Tyr Cys Ala Gly Gly Cys Thr Tyr Gly Thr Gly Gly Thr Cys  
    2450                 2455                 2460

Gly Ala Gly Tyr Cys Ala Gly Ala Gly Tyr Thr Gly Ala Thr Gly  
    2465                 2470                 2475

Ala Gly Ala Gly Cys Ala Cys Tyr Thr Ala Cys Gly Thr Cys Cys  
    2480                 2485                 2490

Thr Gly Gly Thr Thr Gly Cys Thr Tyr Ala Cys Ala Gly Thr Gly  
    2495                 2500                 2505

Gly Thr Thr Cys Ala Gly Gly Ala Gly Thr Thr Ala Thr Cys Gly  
    2510                 2515                 2520

Ala Ala Cys Ala Thr Gly Ala Gly Ala Tyr Ala Gly Thr Thr Ala  
    2525                 2530                 2535

Ala Thr Gly Ala Thr Thr Thr Tyr Tyr Gly Ala Gly Ala Gly Ala  
    2540                 2545                 2550

Ala Gly Ala Thr Gly Ala Thr Thr Thr Ala Thr Ala Ala Ala Gly  
    2555                 2560                 2565

Tyr Thr Ala Thr Ala Cys Ala Thr Thr Gly Thr Gly Thr Thr Cys  
    2570                 2575                 2580

Ala Ala Ala Ala Thr Ala Thr Gly Ala Ala Ala Cys Cys Ala Gly  
    2585                 2590                 2595

Ala Gly Gly Ala Gly Thr Ala Thr Gly Cys Thr Cys Ala Thr Ala  
    2600                 2605                 2610

Ala Gly Ala Thr Thr Thr Thr Gly Gly Ala Ala Thr Thr Ala Cys  
    2615                 2620                 2625

Ala Gly Ala Thr Gly Cys Ala Ala Ala Gly Thr Ala Thr Ala Ala  
    2630                 2635                 2640

Thr Gly Gly Ala Ala Ala Ala Gly Ala Ala Ala Ala Thr Gly Ala

Ala Ala Lys Cys ... ... ... ... Gly Ala Ala  Ala Thr Ala

... Thr Lys Cys Cys Ala Ala  ... Lys Ala Thr Thr  Ala Cys Ala
2745

... Gly Ala Ala Thr Ala Ala  ... ... Lys Ala Thr  Cys Ala Cys
2760

... Gly Ala Thr Ala Ala Cys  Thr Thr Thr Cys Cys  Thr Thr Thr
2775

... Lys Ala Ala Ala Ala Ala  Lys Thr Gly Cys Ala  Gly Thr Gly
2790

... Lys Lys Thr Ala ... Lys  Thr ... Gly Thr Thr  Cys Thr Gly
2745

... Gly Gly Ala Ala Gly Ala  Thr Ala Thr Lys Cys  Ala Thr Gly
2760

... Ala Ala Thr Thr Gly Ala  Gly Ala Ala Ala Ala  Thr Gly Cys
2775

... Thr Lys Ala Lys Gly Thr  Lys Ala Ala Thr Ala  Thr Gly Ala
2790

... Lys Cys Cys Ala Gly Ala  Ala Thr Thr Cys Ala  Ala Gly Gly
2805

... Ala Cys Thr Thr Thr Ala  Thr Ala Thr Thr Gly  Thr Ala Ala
2820

... Ala Gly Ala Ala Ala Ala  Lys Ala Ala Ala Gly  Cys Ala Cys
2835

Thr Lys Cys Ala Ala Ala Ala  Gly Ala Ala Gly Thr  Gly Thr Gly
2850

... Lys Gly Ala Cys Thr Ala  Thr Lys Ala Ala Ala  Thr Ala Ala
2865

... Gly Gly Thr Gly Ala  Ala Ala Thr Cys Ala  Thr Cys Thr
2880

... Lys Ala Ala Ala Thr Gly  Thr Gly Gly Cys Cys  Ala Gly Gly
2895

... Thr Thr Gly Gly Gly Gly  Ala Ala Cys Ala Ala  Thr Gly Ala
2910

Thr Gly Gly Thr Gly Cys Ala  Lys Ala Ala Ala Gly  Gly Cys Thr
2925

... Ala Gly Ala Thr Thr Thr  Gly Lys Cys Thr Thr  Gly Thr Cys
2940

Thr Lys Ala Ala Ala Ala Thr  Ala Ala Gly Gly Ala  Ala Thr Thr
2955

13

... 3

... 1026

... DNA

... Human

...

... Promoter

... (551)..(551)

... n at position 551 represents any nucleotide including c,g,t,a,u

... ... gctatttg ... agtgctggg aaaaaaaa